



# GRP Anti-Slip Flooring

Our GritPlate flooring is an immensely resilient material used in applications where high strength / light weight characteristics are required. This anti-slip flooring is virtually indestructible, totally shatter-proof, and will withstand severe climatic variables. Available from 2.5 – 10mm thick and to a max size of 3.5m x 1.5m – cut FOC.

## Benefits:

- Non Corrosive
- Non Conductive
- Manufactured to Size
- Easy to Install
- Very Hard Wearing
- Choice of Thickness / Colour

## Colour Range:

Black, Grey (RAL 7001) and Yellow (08 E 51) as standard, other colours available from the following ranges:

- [B.S. 4800 Colour Range](#)
- [B.S. 5252 Colour Range](#)
- [RAL Colour Range](#)

A Colour Matching Service is also available.  
2,500 GritPlate sheets installed 2015

## Applications:

- |                      |                      |
|----------------------|----------------------|
| Railway Platforms    | Swimming Pools       |
| Footbridges          | Truck Trailer Floors |
| Disabled Ramps       | Tail-lifts           |
| Piers & Pontoons     | Decking Strips       |
| Inspection Platforms | Marinas and Jetties  |
| Forklift Truck Paths |                      |





### Grit Profile

The grit incorporated into GritPlate is a Fused-Alumina that is available in the following grades: Ultra-Fine (Barefoot), Fine, Medium, Coarse and Ultra-Coarse.

### Cleaning / Maintenance and Life Expectancy

GritPlate is a tough material that can withstand “aggressive” cleaning such as the use of stiff brushes and power-washers as detailed in our guide to the [Cleaning & Maintenance of GritPlate](#).

With little maintenance GritPlate will retain its active anti-slip properties for 15 – 20 years depending on application. In addition, due to the high level UV-protective coating the sheet will not suffer from significant colour fade for at least 15 years.

### Durbar (Chequer Plate)



A traditional anti-slip flooring in a choice of colours to a max size of 2400mm x 1200mm per sheet. Also available with an ultra-fine gritted surface for added slip protection.

### Encapsulated Ply



An increasingly popular flooring widely used in the construction of access ramps and pedestrian bridges. Available in any non-metallic RAL color and in various thicknesses from 9 – 25mm, cut to size FOC.

## Fire Rating

Available as “General Purpose” or to BS 476 Pt6/7 Class II or Class 1 fire rating.

## Installation Guide



Each installation will have its own criteria but there are a number of operations and procedures that are applicable in all circumstances. Therefore, we have made available for download as a PDF our [Guide to Installing GritPlate](#).

### Nominal Weight of Panels

#### Nominal Thickness

3.5mm

4mm

5mm

6mm

#### (kg/m<sup>2</sup>)

6.80

7.80

9.70

10.80

### Surface Profiles

After researching many forms of grit, we elected to use Fused Alumina due to its superior qualities and suitability for the anti-slip applications. Other types such as Bauxite or Quartz are available by special order. The Fused Alumina is available in a variety of grades:  
Ultra-Fine (Barefoot), Fine, Medium, Coarse, Ultra-Coarse

### Panel Size and Thickness

Panels can be manufactured to any length but with a width restriction of 1500mm. Standard product range can be manufactured to literally any thickness from 2mm upward. As this is a handmade product, containing various raw materials, tolerances apply to both size and thickness which may vary depending on the specifications ordered. Occasionally we can accommodate “oversized specials” – please [contact us](#) for details.

### Fire Resistance

Products can be manufactured to either:

- General Purpose (GP grade)
- BS 476 Part 7 Class 1 (surface spread of flame)
- BS 476 Part 7 Class 2 (surface spread of flame)

### Fact:

Unlike other “Plastic” glazing products GRP will not drip, melt or soften in the event of fire. For an explanation of the different ratings [“click here”](#)

**Thermal Conductivity: 0.2w/mK**

**Flexural Strength: 193 MPa**

**Tensile Strength: 123MPa**

As standard, we used chopped-strand fiberglass... Flexural Strength can be enhanced by the addition of woven reinforcement if required.

**Tensile Modulus: 7.1GPa**

GRP is 7 times stronger than mild steel on a weight for weight basis.

#### Pendulum Test

Sample Ref	Surface Finish	Surface Roughness Rz	Surface Temperature oC	Orientation	Pendulum Test Value	
					Dry	Wet
F66326	Medium Grit	54.5	24	Along	90	83
				Across	98	85
F66324	Fine Grit	64.7	24	Along	103	87
				Across	100	88

The TRL pendulum Tester has a range of readings from 0 to 150, high values indicating good slip resistance. Guidance on the interpretation of results using the Four S Slider is suggested by the UK Slip Resistance Group as follows:

Potential For Slip	Pendulum Test Value
High	- 24
Moderate	25 - 35
Low	36+

Exceptional Anti-Slip Surface: BS7976-2

**Thermal Co-Efficient of Expansion:  $30 \times 10^{-6}$  Deg C**

Compared with many other plastics GRP has minimal expansion and contraction characteristics and will not bow or warp in extreme temperatures.



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